SONY
make.believe

MEX-BT31PW

Bluetooth® and Pandora® internet radio

Enjoy Bluetooth® connectivity[7] and control Pandora® internet radio from your smartphone[4]. Now you can stream music, access your phones contact list and make hands-free calls from your receiver. Go further and connect, control and charge your Walkman®, iPod®[3], iPhone®[3], Android™[5], Blackberry®[5], or other compatible USB devices[2] while accessing your digital music files with the front USB input.

Bullets

- Integrated Bluetooth® with Simple Secure Pairing[7]
- Front USB in for iPod®[3], iPhone®[3] & other USB devices[2]
- Pandora® internet radio app control[4]
- Hands Free calling with internal mic (external optional)
- Intuitive Quick-BrowZer® and ZAPPIN® search features
- CD and MP3/WMA/AAC music file playback[1] with DM+
- Advanced Sound Engine with EQ7 & HPF/LPF crossovers
- Automatic Level Optimizer balances levels between tracks
- Detachable faceplate with LCD display & front aux input
- Hi-power 52 watt x 4 Dynamic Reality Amp
- 2 Volt front and rear/sub selectable preamp outputs
- Digital Clarity Tuner with Radio Data System (RDS)
- Convenient wireless remote (RM-X231)
- Blue key illumination
- Steering wheel remote control input ready[6]

Features

Integrated Bluetooth® Technology

Take calls and stream audio with the MEX-BT31PW receiver's Bluetooth® technology[7]. Connect to compatible devices and choose from hands free phone access, phonebook access, Pandora® internet radio control[4] or streaming audio. Display icons light up to indicate incoming text messages, signal strength and battery level of your connected smartphone.

Versatile front USB 1-wire input cable

Connect, control and charge your Walkman®, iPod®[3], iPhone®[3], Android™[5], Blackberry®[5], or other compatible USB device[2] while accessing your digital music files via the front USB input. You can also view metadata like song title and artist on the front display.

Pandora® Internet Radio Control[4]

Pandora® is the leading internet radio service, giving people music they love anytime, anywhere, through personalized radio stations. The MEX-BT31PW provides complete access to your Pandora account using your iPhone®, Android™ or Blackberry® smartphones[4].

Hands Free with noise cancelling

The internal hands-free microphone and integrated echo and noise canceling circuitry assure your conversations are clear.

Intuitive music search features

Use Quick-BrowZer® to find music by artist, album, genre, song or playlist. Jump Mode allows you to fast forward through a category in 10% increments while the ZAPPIN® feature can play a 6, 9, or 30 second intro clip to help you find a specific song.

Plays CDs and popular digital files[1]

Multi-format playback lets you play your MP3, WMA, or AAC songs[1]. Hear digital music files in their original vibrancy with DM+ (Digital Music Plus), a Sony® codec enhancer that reproduces detailed frequencies from compressed audio files.

Custom sound settings with EQ7

The Advanced Sound Engine uses EQ7 equalizer, adjustable LPF/HPF crossovers, Listener Position calibration, DM+ advanced sound restoration, Rear Bass Enhancer, and Dynamic Loudness volume leveler to deliver an impressive listening experience.

Smooth playback transitions

Automatic Level Optimizer analyzes each tracks playback levels and adjusts output level to optimize transitions between tracks and sources.

SONY
make.believe

Convenient control panel design

The easy-to-read single line LCD display shows source information, clock, station ID and track data when playing back digital files from CD, streaming audio or external USB devices. Front auxiliary input lets you connect almost any portable audio device to your car's sound system.

Powerful in-dash amplification

The internal Dynamic Reality Amp delivers 52 watts x 4 to your interior speakers, allowing you to crank up the volume while maintaining low distortion, low noise levels and smooth frequency response. Your music isn't just louder, its clearer too.

RCA outputs for system expansion

When you're ready to expand your system, the MEX-BT31PW offers 2 volt front and rear/sub selectable pre-amp RCA outputs for external amplifiers. The adjustable subwoofer level control also lets you dial in the bass when you're ready to pump it up.

The immaculate reception

The Digital Clarity Tuner delivers industry leading signal to noise ratios, lower interference, better multipath rejection and better stereo separation. The RDS feature displays broadcast information when listening to compatible AM/FM stations.

Convenient wireless remote included

Control your receiver while keeping your eyes on the road with the included wireless card remote (RM-X231).

Button Illumination

Blue key illumination helps you locate buttons quickly during evening playback.

Steering wheel control ready input[7]

This receiver is compatible with aftermarket remote control adapters[7] designed to utilize the vehicles existing, primary radio controls directly from the steering wheel. The 1/8" rear panel mounted remote input jack allows for simple connectivity.

Specifications

Amplifier Section	
Max power output	52 watts x 4 at 4 ohms
Power Ad Hoc	CEA2006 Standard Power: 17 Watts RMS per channel into 4 Ohms, 4 channels driven from 20 Hz to 20 kHz with less than 1% THD+N.
Speaker Impedance	4-8 Ohms
AMP & General Feature	
Automatic Level Optimizer	Yes
Aux-In	Front
DM+ (Codec enhancer)	Gen2.1
EQ	EQ7: 7 band EQ with +/- 6 dB adjustment at 63 Hz, 160 Hz, 400 Hz, 1000 Hz, 2.5 kHz, 6.3 kHz and 16 kHz.
High Pass Filter	Selectable on/off at: 50, 60, 80, 100 or 120 Hz.
Loudness	Dynamic Loudness
Low Pass Filter	Selectable on/off at: 50, 60, 80, 100 or 120 Hz.
Output Power (4ohm, 1kHz,16V) (W)	52 watts x 4
Pre Out	(2) Front, Rear and Sub selectable
Rear/Sub initial	Sub
Rear Bass Enhancer	Yes
Subwoofer Direct Connection	Yes
Time Alignment Custom	Adjustment
Time Alignment Preset	Yes
Audio	
Band	AM / FM
Equalizer	EQ7: 7 band EQ with +/- 6 dB adjustment at 63 Hz, 160 Hz, 400 Hz, 1000 Hz, 2.5 kHz, 6.3 kHz and 16 kHz.
Format(s) Supported	MP3/WMA/AAC files[1]
Preout Impedance	220 ohms
Preout Voltage	2 volt
S/N Ratio	Audio Power: CEA2006 S/N 80 dBA
Signal-to-Noise Ratio (dB)	CD: 120 dB
Station Preset(s)	18 FM / 12 AM
Tuner Frequency Range	FM (MHz): 87.5-107.9 AM (kHz): 530-1710
Tuner Type	Digital clarity tuner with RDS

SONY
make.believe

Wow and Flutter	Below measurable limit
AUX in Feature	
Level Adjustment	-8dB / +18dB
Bluetooth Features	
# of records connected	9 (HFP+Audio)
Call History (# of)	20 numbers
Call history browse with PBAP	Yes
Call Volume Level Control	Yes
Connection Status (maximum #)	(1) HFP/PBAP+ (1) Audio
Echo/Noise Canceller	Mode 1 or 2
Internal Ringtone	1 (Sony Ericsson PCM)
Last dialed call	Yes
MIC GAIN Adjustment	Low/Mid/Hi
Phonebook Access via PBAP	Yes
RF ON/OFF	Yes
ring alert select	Internal/Cellular
ring volume level control	Yes
speed dial	6x1=6 memories
Bluetooth Audio Features	
Audio Codec	SBC/MP3
Audio Level Adjustment	-8dB - +18dB
CUE/REV	Yes
Meta Data Indication	Yes
PAUSE	Yes
TRACK +/-	Yes
Bluetooth	
Secure Simple Pairing	Yes
Version	Bluetooth Version 2.1
Convenience	
Tilt Range	0-45° mounting angle
Convenience Features	
Dimmer Adjust	Manual
Key Illumination	Blue
On-Screen Clock	12H
Display	
Display Color	Black color / Negative
Display Technology	LCD
Text Displayed	Source, artist, track, playback time, menu, clock, Pandora® and Bluetooth® data
Text Lines	1 line of information
Display Panel	
Dimmer Adjust	Manual
Key Illumination Initial	Blue
Panel Design	
Display color (Color Variation/ Nega or Posi)	Black color/Negative
Display Device (LCD/FL/OEL/TFT)	LCD
Key Illumination	Blue
Panel finish color	Black
USB Shutter	Yes
Feature	
CODEC (for USB)	MP3, WMA, AAC
Jump Mode	Yes
List Browsing (Folders/Files)	Yes
Pause	Yes
Repeat	OFF/ TRACK/ ALBUM
Resume Play	Yes
Shuffle	OFF/ALBUM/DEVICE
ZAPPIN	Yes
General	
CEA2006 output power	17
CEA2006 S/N	80
Dimensions (WxHxD) (mm)	178x50x177
Maximum output power (4ohm, 1kHz, 16V)(W)	52
Mounting dimensions (WxHxD)(mm)	182x53x160
Preout impedance (ohms)	220
Preout output level (V)	2
Weight (kg)	1.2
Inputs and Outputs	
12V Trigger Output(s)	Power remote on
Antenna Terminal(s)	AM/FM Antenna Input Terminal
Audio In	Front Aux in with variable level Front USB input

SONY
make.believe

Digital Audio Input(s)	Ability to use all forms of USB devices may vary as not all devices are compatible. This unit is compliant with MSC (Mass Storage Class) and MTP (Media Transfer Protocol) type USB devices compliant with the USB standard. This unit cannot recognize USB devices via a USB hub. This unit can be connected to the following iPods. Update your iPod to the latest software before you use it. iPod Nano 1st - 6th generation iPod Touch 1st - 4th generation iPod Classic iPod with video iPhone iPhone 3G iPhone 3GS iPhone 4 iPhone 4S iPhone 5 If you have any questions or problems concerning your unit that are not covered in the owners manual, consult your nearest Sony dealer.
Infrared Port	Wireless remote
RCA Audio Output(s)	Front and selectable Rear/Subwoofer RCA pre-amp outputs
Remote Jack	Optional wired remote terminal
USB Port(s)	Front
iPod Control Feature	
Accessory Information	Yes
CODEC (for iPod)	Depend on iPod® content
List Browsing (Folders / Files)	Quick-BrowZer®
Pandora Link (USB)	Yes
Passenger Control	Yes
Pause	Yes
Repeat	Track, Album, Artist, Playlist, Genre, Podcast
Resume Play	Yes
Shuffle	Track, Album, Artist, Playlist, Genre, Podcast
ZAPPIN	Yes
USB Capable	
USB Mass Storage Device	Yes
Instruction Manual Language	
English	Yes
Spain	Yes
Other Features	
Device Name	Sony Automotive
Network Carrier Information	Yes
Pandora Link (BT)	Yes
SMS Indication	Yes

Card Remote ( ): Option	RM-X231
CD lock mode	Yes
Clock	12H
Rotary commander ( ):Option	Optional wired remote input
Security	Detachable
Profile	
A2DP	Version1.2
AVRCP	Version1.3
HFP 1.5	Yes
PBAP	Yes
SPP	Yes
Tuner	
FM Usable Sensitivity	8 dBf
Frequency Response	FM: 20-15,000 Hz
S/N Ratio	80 dB (stereo)
Selectivity	75 dB at 400 kHz
Stereo Separation	50 dB at 1 KHz
FM: Channel separation (dB)	50 dB at 1 kHz
FM: Frequency response (Hz)	20 - 15k
FM: Intermediate frequency (MHz)	25 KHz
FM: S/N ratio (mono) (dB)	80 dB stereo
FM: Selectivity (400 kHz) (dB)	75 dB
FM: Tuning range (MHz)	87.5-107.9
FM: Usable sensitivity (75 ohm) (dBf)	8 dBf
MW: Tuning range(kHz)	530-1710
MW/LW/SW: Sensitivity (75 ohm) MW/LW/SW(uV)	26/-/-
Tuner Feature	
Preset	FM18/AM12
RDS/EON (NA Only:RBDS, Others:RDS)	RBDS
Weights and Measurements	
Dimensions (Approx.)	178 x 50 x 177 mm, 7.125 x 2 x 7 inch (w/h/d)
Dimensions (Approx) Depth	7" (177 mm)

SONY
make.believe

Dimensions (Approx) Height	2" (50 mm)
Dimensions (Approx) Width	7.125" (178 mm)
Weight (Approx.)	1.2 kg (2 lb. 11 oz.)
Supplied Accessories	
Supplied Accessories	Parts for installation and connections (1 set) RM-X231 wireless remote
Optional Accessories	
Optional Accessories	USB connection cable for iPod®: RC-100IP Microphone: XA-MC10

1. Not all files may playback due to file variations. Copyright protected ACC-LC files not supported.
2. Not all USB devices are compatible. Consult www.esupport.sony.com for complete details.
3. Works with iPod touch® (1st – 4th generations), iPod nano® (1st– 6th generations), iPod classic®, iPod with video and iPhone®, 3G, 3GS, 4, 4S and 5.
4. Works with iPhone® 3G, 3GS, 4, 4S, and 5 via USB port, and compatible Blackberry® and Android™ based smartphones via Bluetooth®.
5. Compatible with Android™ or Blackberry® smartphones supporting Mass Storage Class (MSC) devices, users required to manually select MSC/USB connection in smartphone menu for proper functionality.
6. Compatibility varies as not all vehicles are compatible; please consult with each interface manufacturer for details.
7. Interoperability and compatibility among Bluetooth® devices vary.

© 2013 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, ZAPPIN, Walkman, Quick-BrowZer and their respective logos are trademarks of Sony. iPod, iPod classic, iPod nano, and iPhone are trademarks of Apple Inc. PANDORA, the PANDORA logo, and the Pandora trade dress are trademarks or registered trademarks of Pandora Media, Inc., used with permission. Google, Android, and their respective logos are trademarks of Google Inc. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice. Updated: January 7, 2013